

STRUCTURE 5AX

This structure is a four-barreled corrugated metal pipe culvert, located on Cross Canal between the Hillsboro and West Palm Beach Canals. Control is effected by manually operated sluice gates mounted on steel frames erected on the west end of each culvert.

PURPOSE

This structure is located at the drainage divide on the Cross Canal (the L-13 borrow canal) between the West Palm Beach Canal and the Hillsboro Canal. Its purpose is to function as a basin divide, and to channel excess water either to the Hillsboro or West Palm Beach Canals as capacity is available.

OPERATION

The gates on this structure are normally open. They are closed only when conditions exist such as maintenance or emergency and channel capacity is not available in the other basin to permit release through the structure.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>unknown</u> cfs
	* <u> </u> %SPF
Headwater Elevation	<u>unknown</u> feet
Tailwater Elevation	<u>unknown</u> feet
Type Discharge	<u>submerged</u>

*Design flow not related to Standard Project Flood

DESCRIPTION OF STRUCTURE

Type corrugated metal pipe culvert with upstream (west) control
Number of barrels 4
Size of barrels 6 ft.
Length of barrels 68 ft.
Flow line elevation 5.5 feet
Service bridge elevation 19.5 feet

Water Level which will by-pass structure 18.0 feet

Control Structure Discharge is controlled by gates mounted on steel framed erected on the upstream end of the culvert. Access to the gate structure is via a timber pile supported bridge from the levee crest.

Gates

Number 4

Type sluice gates mounted structure at west end of culvert

Size 6 foot diameter

Control manual

Lifting Mechanism manually operated wheel on screw stems

Date of Transfer: August 27, 1956

ACCESS: Structure located on State Highway 80

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level Remote digital headwater and tailwater recorder

Gate Position Recorder None

Rain Gauge Remote digital recorder

DEWATERING FACILITIES None